



U.S. Postal Service eGovernment Solution

NetPost.Certified™



A "Trusted Internet Delivery Service"

providing users the ability to conduct a secure, authenticated, electronic exchange of documents and transactions.

Featuring:

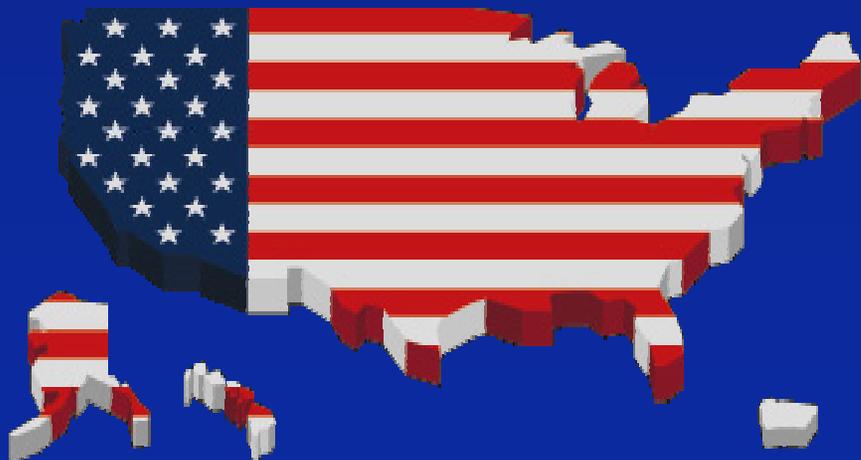
Nationwide In-Person Proofing
USPS Electronic Postmark™(EPM)

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Supported by the President

“[t]he Postal Service should assist in developing future messaging systems and seek to leverage its comprehensive directory, messaging security, and addressing directory management capabilities in a manner that promotes universal access to the benefits of these new technologies for all citizens who desire them.



*- President George W. Bush,
Budget Message - March 7, 2001*



NetPost.Certified Infrastructure

- **Registration Authority**
 - Nationwide Availability Planned
 - Currently Available at 63 Sites
- **Certificate Authority**
 - X509 v3 Digital Certificates
- **Validation Authority**
 - CRL
 - OCSP v1 (Planned)
- **Electronic Postmark**
 - Time/Date Stamp
- **National Customer Support**
- **Transport SW for Integrated Secure Delivery**
- **Inspection Service for Wire Fraud Protection**



Potential Applications for NetPost.Certified

- Wage Reports
- Tax Data
- Vital Statistics
- Health Insurance
- Benefits Data
- Medical Records
- Patient Care Data
- Laboratory Data
- Research Data
- X-Rays
- Investigative Reports
- License Applications
- Security Filings
- Bids & Proposals
- Video Files
- Geographic Images
- Voice Files



Delivering Postal Quality to the Internet

Enables people to send electronic information with the same security, privacy and business quality as traditional U.S. Mail.

Physical Mail-Like Attributes

- Privacy within Envelopes.....Encryption
- Restricted Del. to Addressee Only.....Digital Signatures
- Time-Date-Place Postmark.....USPS Electronic Postmark™
- Return Receipts.....e-Receipts
- Universal Service.....Nationwide Availability
to Federal and State Govt.
- Postal Protections.....e-Crimes Program



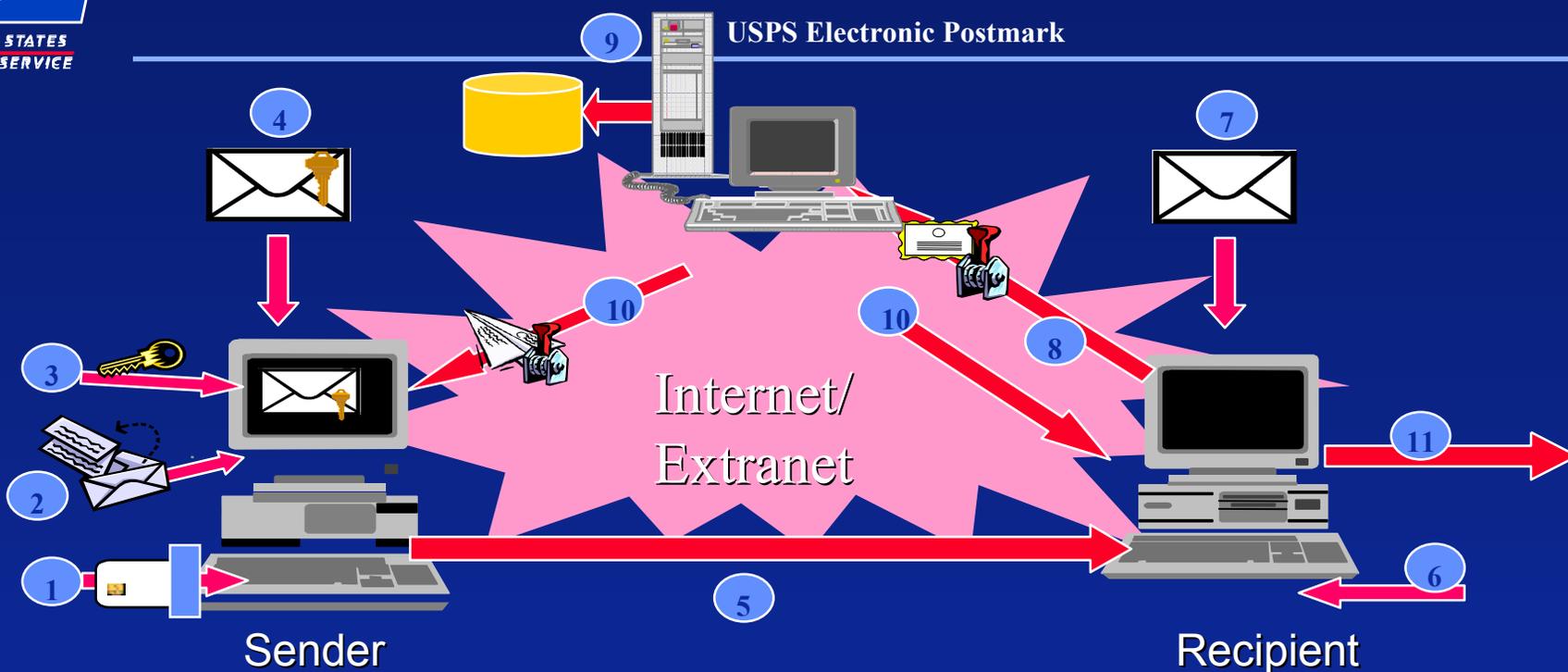
Solution Definition

At the highest level, NPC allows customers to send and receive an electronic communication incorporating key features of USPS Registered and Certified Mail.

- **Physical Identification** – *one time in person identification proofing of users at Post Offices nationwide;*
- **Electronic Authentication** – *cryptographically verifies the identity of the sender and receiver of each transaction;*
- **Integrity** – *tamper detection assures and certifies that what was sent is the same as what was received;*
- **Confidentiality** – *encrypts contents so only the intended recipient can read the contents to enhance privacy and ensure restricted access;*
- **Proof-of-Service** – *non-repudiation of the transaction between the sender and receiver when the Electronic Postmark (EPM) is posted on the receipt; and*
- **Fraud Protection** – *USPS Inspection Service to protect and resolve transaction disputes.*



NetPost.Certified™ Transaction Process



- 1 (Optionally) Smart Card inserted into Smart Card Reader
- 2 Sender identifies files to send (may be any type of file)
- 3 NPC software creates manifest, signs using the sender's private key, and includes manifest in package
- 4 NPC software signs package with sender private key and "wraps" (encrypts) package with recipient's certificate key so only the recipient can decrypt.
- 5 "Package" sent to destination site via Internet/Extranet.

- 6 Package "opened" by recipient.
- 7 NPC software "unwraps" (decrypts) package, manifest inspected, manifest signed with recipient's private key.
- 8 Signed manifest (a.k.a receipt) encrypted and sent to USPS Electronic Postmark service
- 9 Receipt inspected and Electronic Postmark applied. Receipt archived for at least 5 years.
- 10 Postmarked receipt is returned to the sender
- 11 User or end-application accesses and processes transaction data.



The Identity Validation Process for USPS Digital Certificates

STEP 1 On-line Registration



Customer..... registers on-line....receives/installs SmartCard/Kit...USPS generates IDV Form....mailed to customer address.

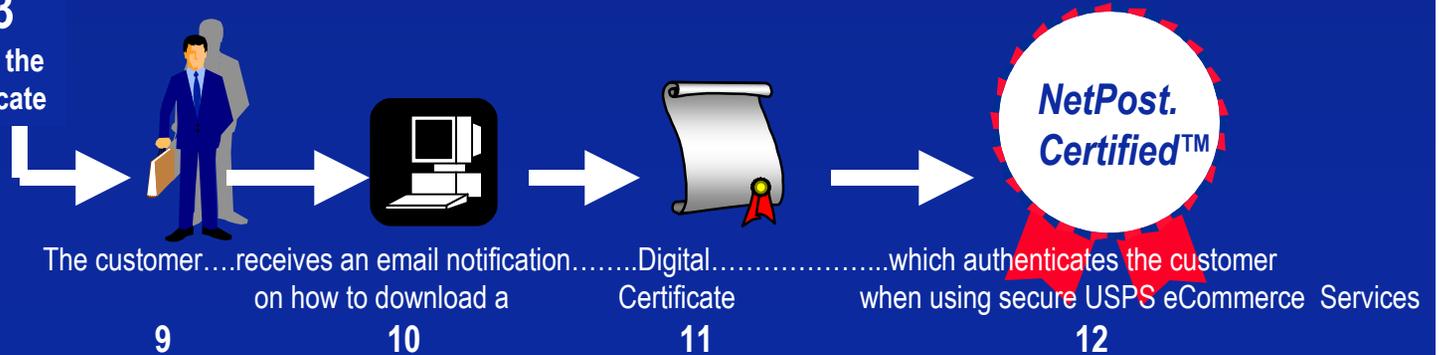
Step 1 will take approx 3-5 days. Step 2 must be completed by the customer in 20 days from the date of on-line registration. Step 3 takes 48 hours after Identity Validation at the Retail counter.

STEP 2 Identity Validation



undergoes Identity Validation.....goes to the Post Office.....the customer

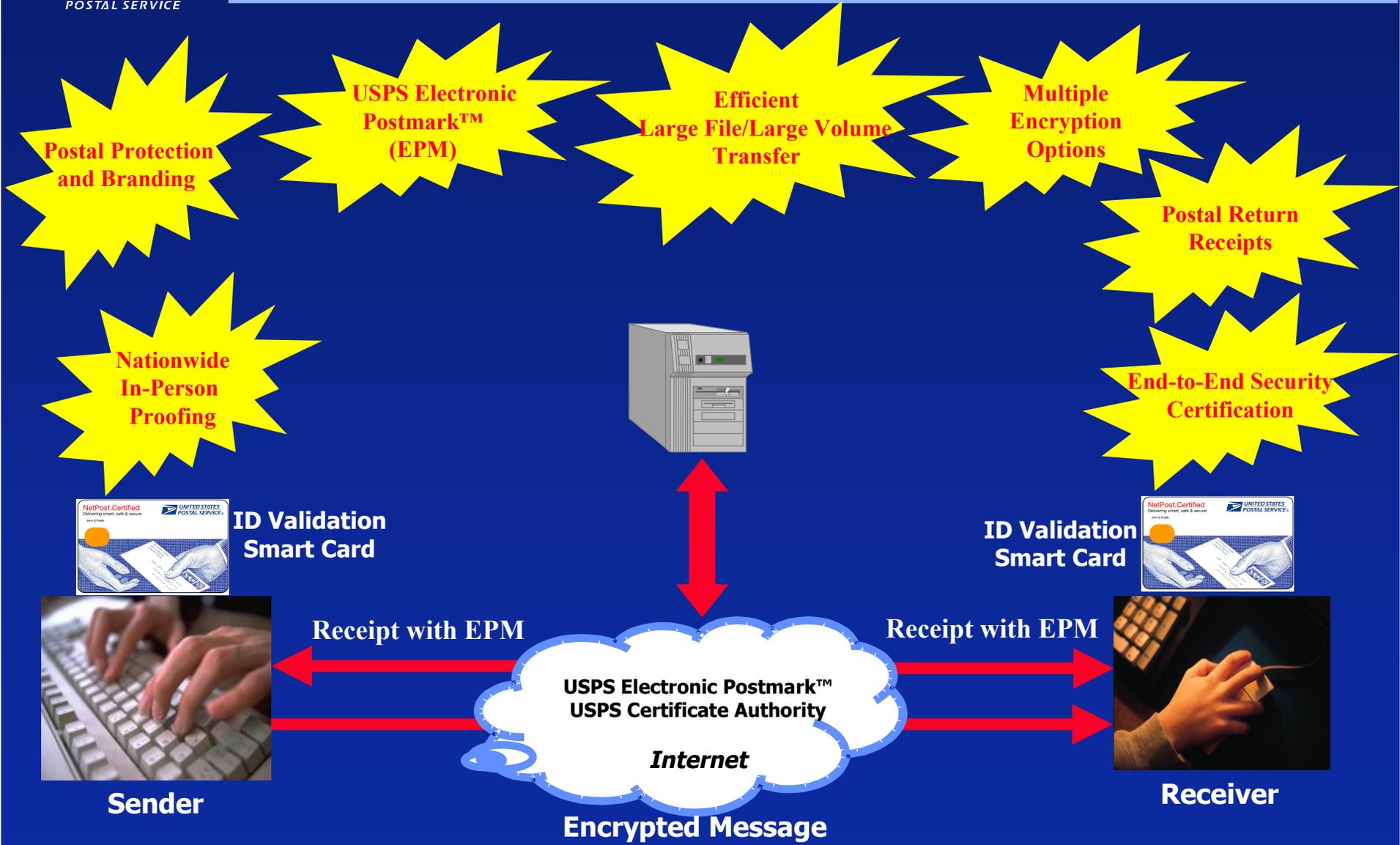
STEP 3 Downloading the Digital Certificate



The customer....receives an email notification.....Digital.....Certificate.....which authenticates the customer when using secure USPS eCommerce Services



NetPost.Certified™ - Value Added





Enables GPEA¹, HIPAA², GLBA³, E-Sign Compliance

Compliance with...	NetPost.Certified
GPEA: Allow citizens to use electronic technologies when filing information with, or retrieving it from the Federal Government	Yes
GPEA: Provide the legal framework for agencies to accept electronically submitted forms and documents	Yes
GPEA: Electronic signatures and other measures will be used to authenticate citizens as they transact business with the Government	Yes
HIPAA: Improved efficiency in healthcare delivery by standardizing electronic data interchange	Yes
HIPAA: Protection of confidentiality and security of health data through setting and enforcing standards	Enables
HIPAA: Security standards protecting the confidentiality and integrity of "individually identifiable health information" past, present, or future	Enables
HIPAA: Organizations will be required to implement one of more security authentication access mechanisms: user-based, role-based, and or context-based access (depending on organization's environment)	Yes
GLBA: Protect security and confidentiality of customers' non-public personal information	Yes
E-SIGN: Permit private parties to conduct business and retain records electronically, using electronic signatures.	Yes

¹Government Paperwork Elimination Act of 1998

²Health Insurance Portability and Accountability Act of 1996

³Gramm-Leach-Bliley Act of 1999



Addresses CFO Council Issues

CFO Council Issues	NetPost.Certified
Systems should provide improved auditing capabilities	Yes
Provide for electronic submission of forms and data to facilitate prompt payment and reduced cycle times	Yes
Authentication of users (senders and receivers)	Yes
Protection from fraud	Yes



Value For Our Customers

- ✓ **Cost Reduction**
- ✓ **Nationwide In Person Proofing at Post Offices**
- ✓ **Nationwide Customer Support**
- ✓ **National Scalability**
- ✓ **Fraud Prevention & Prosecution**
- ✓ **Security and Privacy Safeguards**
- ✓ **Assists with Legislative Compliance**